

IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-44 (cancelled)

Claim 45. (previously presented) The array according to claim 47 wherein the array contains a substrate for attaching toxicologically relevant canine nucleic acid molecules thereto.

Claim 46. (previously presented) The array according to claim 46 wherein the substrate is glass.

Claim 47. (previously presented) An array comprising at least 10 nucleic acid molecules wherein the at least 10 nucleic acid molecules are SEQ. ID Nos.: 115-124.

Claim 48. (new) An array according to claim 47 wherein the array further comprises SEQ ID Nos.:125-176, 179, 182, 185, 188, 191, 194, 197, 200, 203, 206, 209, 212, 213-384 and complements thereof.

Claim 49. (new) An array comprising partial gene sequences from toxicologically relevant canine genes comprising SEQ. ID Nos.: 115-124 and complements thereof.

Claim 50. (new) An array comprising a combination of partial gene sequences from toxicologically relevant canine genes comprising

SEQ. ID Nos.: 116-118, 121 and 123 and complements thereof.

Claim 51. (new) An array according to claim 50 wherein the array further comprises SEQ. ID Nos.: 115, 119, 120, 122, 124-176, 179, 182, 185, 188, 191, 194, 197, 200, 203, 206, 209, 212, 213-384 and complements thereof.

Claim 52. (new) An array comprising a combination of toxicologically relevant canine nucleic acid molecules comprising SEQ. ID Nos.: 329, 116, 117, 118, 121 and 123 and complements thereof.

Claim 53. (new) An array as described in claim 52 wherein the array further comprises SEQ ID Nos.: 115, 119, 120, 124-179, 182, 185, 188, 191, 194, 197, 200, 203, 206, 209, 212, 213-328, and 330-384 and complements thereof.

Claim 54. (new) A method for toxicity detection of a compound in a canine sample, said method comprising:

- a) obtaining nucleic acids from a sample;
- b) contacting the nucleic acids of the sample with an array comprising the combination of SEQ IDs of claim 53 under conditions to form one or more hybridization complexes;
- c) detecting said hybridization complexes; and
- d) comparing the levels of the hybridization complexes detected in step (c) with the level of hybridization complexes detected in a non-dosed sample, wherein the altered level of hybridization complexes detected in step (c) compared with the level of

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hybridization complexes of a non-dosed sample correlates with the presence of compound toxicity in the canine.